

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

APPLICATION FOR PERMIT
TO CONSTRUCT A RESERVOIR AND TO STORE FOR BENEFICIAL USE
WATERS OF THE STATE OF WASHINGTON

\$10.00 MINIMUM STATUTORY FILING FEE REQUIRED WITH APPLICATION
(GRAY BOXES FOR OFFICE USE ONLY)

APPLICATION NUMBER R 2-30209	W.R.I.A. 28	COUNTY Clark	PRIORITY DATE 8-30-01	TRE	ACCEPTED SL
APPLICANT'S NAME: Brian Calkins, Shillapoo Wildlife Area Manager, WDFW			TELEPHONE NUMBER Contact: John Axford 360-608-7799		
DATE AND PLACE OF INCORPORATION, IF APPLICANT IS A CORPORATION n/a					
ADDRESS (STREET) 2108 Grand Blvd		(CITY) Vancouver	(STATE) WA		
SOURCE, USE, AND CAPACITY OF RESERVOIR					
NAME OF PROPOSED RESERVOIR Shillapoo Lake Wildlife Area, South Unit, Wetland Cell #1					
NAME OF STREAM OR OTHER SOURCE FOR RESERVOIR SUPPLY local surface runoff into historical, drained Shillapoo Lake bed			TRIBUTARY OF: Lake River -- at high waters, the natural lake probably spilled into Lake River to the NE. At lower elevations, it was likely isolated.		
USE(S) TO BE MADE OF IMPOUNDED WATER (IRRIGATION, POWER, FISH PROPOGATION, ETC.) Wetland Habitat Restoration - water that otherwise would be ditched and pumped out to Lake River will instead be retained and used to restore wetland vegetative communities for wildlife habitat.					
NUMBER OF ACRE FEET TO BE STORED AT MAXIMUM OPERATING LEVEL 108 - initial years. Increases to 375 only with future work by others.			MONTHS OF YEAR DURING WHICH RESERVOIR IS TO BE FILLED Nov. - June		
NUMBER OF ACRES TO BE IRRIGATED, IF USED FOR IRRIGATION no irrigation. No consumptive use. All water retained used for wildlife habitat; water to be drained towards Lake River if there is excess.					
TYPE AND CAPACITY OF DIVERSION WORKS IF WATER IS TO BE WITHDRAWN no withdrawal of waters is planned or even possible. Only beneficial use is waterfowl habitat and subsequent recreational opportunities.					
LOCATION OF POINT OF DIVERSION OR WITHDRAWAL					
ON ACCOMPANYING PLATS OR MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. GIVE MEASURED DISTANCE AND BEARING, OR NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER.					
COMPLETE EITHER A OR B	A	THE RESERVOIR IS TO BE LOCATED IN THE CHANNEL OF (NAME OF STREAM) Water will be impounded in the 157 southernmost acres of the 900 acre historical Shillapoo Lake bed - lake has been ditched and pumped dry for agriculture since approximately 1945. The ditch draining the southern end of the lakebed will be plugged; no natural stream, or evidence of such a stream, exists in this portion of the lakebed. The purpose of the levee is ONLY to retain waters otherwise pumped out, in order to restore habitat.			
	B	THE RESERVOIR IS TO BE FILLED THROUGH A FEEDER CANAL (OR PIPELINE) HAVING ITS POINT OF DIVERSION (INTAKE) LOCATED AS FOLLOWS NOT APPLICABLE TO THIS PROJECT.			

DISTANCE AND BEARING TO SECTION CORNER **2957' ; S22dW**

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)

SECTION
31

TOWNSHIP
T3N

RANGE (E. OR W.) W.M.
R1E

COUNTY

Clark

Serial #188459-000

IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION

LOT

BLOCK

OF (GIVE NAME OF PLAT OR ADDITION) **n/a**

CONTINUED ON NEXT PAGE

b.

LOCATION OF IMPOUNDING STRUCTURE			
IMPOUNDING STRUCTURE LOCATED WITHIN (SMALLER LEGAL SUBDIVISION) Serial #188459-000		SECTION 31	TOWNSHIP N.3N RANGE (E. OR W.) W.M. 1E
LEGAL SUBDIVISION OF LANDS IN WHICH THE SUBMERGED AREA IS TO BE LOCATED (THE OUTLINE OF THIS LAND IS TO BE SHOWN ON THE MAP TO ACCOMPANY THIS APPLICATION)			
N/A			
DO YOU OWN THIS PROPERTY <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		IF NO, HAVE YOU SECURED FLOOD RIGHTS FOR LANDS TO BE INUNDATED <input type="checkbox"/> YES <input type="checkbox"/> NO	
CONSTRUCTION OF IMPOUNDING STRUCTURE			
HEIGHT OF DAM (FEET) 7.5	LENGTH OF TOP (FEET) 4276'	LENGTH OF BOTTOM (FEET) 4717'	WIDTH ON TOP (FEET) 10'
SLOPE OF FRONT OR WATER SIDE (NUMBER OF FEET HORIZONTAL TO ONE FOOT VERTICAL) 3h : 1v		SLOPE OF BACK SIDE (NUMBER OF FEET HORIZONTAL TO ONE FOOT VERTICAL) 3h : 1v	
HEIGHT OF DAM ABOVE WATER LINE AT MAXIMUM FLOOD FLOW (FEET) 2.5'			
TYPE OF CONSTRUCTION OF DAM AND MATERIAL OF WHICH IT IS TO BE BUILT Compacted earth fill – local borrow			
LOCATION AND DIMENSIONS OF SPILLWAYS (STATE WHETHER OVER, AROUND, OR THROUGH DAM) Around / over levee at west end where levee is 1' +/- tall			
NUMBER OF ACRES TO BE SUBMERGED BY RESERVOIR WHEN FULL INITIAL YEARS: 73 / AFTER FUTURE PHASES BY OTHERS: 157	MAXIMUM DEPTH (FEET) 3' INITIALLY, BASED ON HYDRO CALCS / AT MAXIMUM BUILDOUT BY OTHERS, 5'	APPROXIMATE AVERAGE DEPTH (FEET) Initial: 1.75, approx. / Final: 2.5'	
ESTIMATED COST OF PROPOSED WORK \$95,000.00			
CONSTRUCTION WILL BEGIN ON OR BEFORE (DATE) 9-15-04		CONSTRUCTION WILL BE COMPLETED ON OR BEFORE (DATE) 10-30-04	
SIZE AND TYPE OF OUTLET STRUCTURE 48" CMP half-round stop-log structure w/ 36" outlet pipe. There is also a rock-protected emergency spillway with a crest 0.5' above the stop-log structure crest.			

<p>LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED (IF DIFFERENT THAN ABOVE)</p> <p>COPY LEGAL DESCRIPTION FROM DEED OR ATTACH COPY OF DEED. TAX STATEMENT DESCRIPTIONS ARE NOT ACCEPTABLE ALSO OUTLINE THIS PROPERTY ON THE MAPS OR PLATS SUBMITTED WITH THIS APPLICATION.</p> <p>N/A – water is not used on another parcel</p>
<p>DO YOU OWN THIS PROPERTY</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>IF NO, GIVE NAME AND ADDRESS OF OWNER</p>


Brian M. Callis Wildlife Area Mgr.
 SIGNATURE OF APPLICANT

STATE OF WASHINGTON
 DEPARTMENT OF ECOLOGY

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This is to certify that I have examined the foregoing application together with the accompanying maps and data,
 and return the same for correction or completion as follows:

In order to retain its priority, this application must be returned to the Department of Ecology, with corrections, on
 or before _____, 19____.

Witness my hand this _____ day of _____, 19____.

Department of Ecology